[redacted]
To: Kruchek, David, 'david kruchek@state co us'
Cc: Kehler, Kurt, Tower, Steven
Subject: Group 14 RLCR - Tents 7 & 8 CDPHE Issues

Dave,
We have researched the issues you raised with the Group 14 RLCR, specifically the issues of the elevated hits on Tents 7 and 8 The following is information we have learned from our research

Tent 7

1 Page 139 (refer to number in lower left corner of the Attachment C, Hazards Assessment Report for Tents 7, 8 and 9), shows an elevated point (#32, 174 dpm/100cm^2 alpha) on Tent 7, SW door The survey form indicates the SW door was posted as a fixed contamination area
2 Page 141of the HAR shows three more elevated points (#4 and #5, 114 dpm/100cm^2 alpha each & #6, 174 dpm/100cm^2 alpha), on Tent 7 SW door The survey form also indicates the SW door was posted as a fixed contamination area
3 Page 143 of the HAR (14 days after the surveys that were performed on Page 139 and 141) indicates that the SW door has decayed (refer to survey points #1, 2 and 3), and all points are <100 dpm/100cm^2 alpha The Note on the survey form indicates initial elevated contamination was not DOE-enhanced radioactive material

Tent 8

4 Page 266 of the HAR shows elevated points (#23, 108 dpm/100cm^2 alpha, and #24, 228 dpm/100cm^2 alpha) on Tent 8, SW door
5 Page 268 of the HAR shows elevated points (#2, 228 dpm/100cm^2 alpha, #3, 120 dpm/100cm^2 alpha, #4, 168 dpm/100cm^2 alpha, #5, 216 dpm/100cm^2 alpha, and #6, 144 dpm/100cm^2 alpha) on Tent 8, S and SW doors
6 Page 274 of the HAR (approximately 3 days after the survey performed on Page 268) indicates that the doors have decayed (refer to survey points #16 and 17), and all points are <100 dpm/100cm^2 alpha

It should be noted that all elevated contamination found during the 1999 HAR was fixed contamination and not removable Recent discussions with the Tent Area Radiological Engineer have revealed that all fixed contamination stickers have been removed from all tent panels and frames

Additionally, there exists an extended PRE for the release of damaged tent panels in the event the panels are damaged by the winds and need to be disposed The PRE explains that there is no contamination based on the tents' process histories and historical removable and fixed contamination surveys There is still another recent survey of a set of damaged 904 pad tent panels that indicate no removable or fixed contamination Weekly removable surveys of the tent panels are performed, the surveys show no radioactive contamination present. The above survey data indicate that there is no fixed or removable contamination on the tent panels The documentation supports the RLCR conclusion that the elevated readings presented in the HAR are a result of naturally occurring radioactivity and not from DOE-added material

It should also be noted that the Group 14 RLCR does not give any of the tents unrestricted free release status, it only serves to classify the tents as Type 1 facilities A complete Type 1 RLC/PDS will still be required of the tents prior to demo/sale

I am going to make copies of the weekly tent surveys, the damaged panels survey, and the PRE for you and drop them off at your office for review Based upon the above information, we believe the Group 14 RLCR adequately depicts the current radiological conditions and Typing of Tents 7,

1/15

8 and 9 If the above information still does not address your issues, please send me another e-mail Thank you for your patience in receiving this response

Duane Parsons
RISS Facility Characterization Coordinator
Phone 303-966-6458
Pager 303-212-3734
Fax 303-966-6678
duane parsons@rfets gov

2

From: David Kruchek [David Kruchek@state.co us]
Sent: Thursday, January 10, 2002 1 39 PM
To: steven tower@rf doe gov
Cc: duane parsons@rfets gov, kent.dorr@rfets gov
Subject: RLCR for Tents 7 and 8

Was ready to Ok the RLCR but then I decided to look at the rad info, and to my dismay, I could not find the specific info that supports the text which shows that the high hits are not DOE added Found the one for Tent #9 but did not see the resurvey for 7 & 8 There appears to have been a resurvey performed on 5-20-99, but the survey locations are not well defined Can someone please provide me with info describing the locations that were resurveyed?

Tent 8 resurveyed the area of concern 2 days after the initial survey and appears to have found similar high levels

I need to get the specific info that supports that the hits identified are not DOE added for Tents 7 & 8

3

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg. EBERLINE	Mfg. EBERLINE	Mfg. EBERLINE
Model BC-4	Model BC-4	Model SAC-4
Serial # 838	Serial # 874	Serial # 959
Cal Due 7/13/99	Cal Due 6/7/99	Cal Due 7/5/99
Bkg. 44	Bkg. 41	Bkg. 0.1
Efficiency 25%	Efficiency 25%	Efficiency 33%
MDA <200	MDA <200	MDA <20
Mfg. EBERLINE	Mfg. NE TECH	Mfg. NE TECH
Model SAC-4	Model ELECTRA	Model ELECTRA
Serial # 1188	Serial # 1680	Serial # 1680
Cal Due 6/16/99	Cal Due 8-10-99	Cal Due 8-10-99
Bkg. 0.1	Bkg. 5	Bkg. 490
Efficiency 33%	Efficiency 22%	Efficiency 34%
MDA <20	MDA 59	MDA 316

Survey Type: Contamination Survey

Building: [redacted] # 7

Location: 904 PAD

Purpose: CHARACTERIZATION SURVEYS

RWP #: NA

Date: 05-05-99 Time: [redacted]

RCT: Rex Snyder / [signature] [redacted]
Print name Signature Emp. #

RCT: N / [signature]
Print name Signature Emp. #

PRL #:

Comments: Canvas Panels + 10% GCan + Every 5th Support Survey Points
* Reading at 7' ** Reading at Ground Level [redacted] marked + posted as

All Results Are In dpm/100cm2 [redacted] Contain per L. Cooper RFS

SURVEY RESULTS

	Removable		Direct			Removable		Direct	
	Alpha	Beta	Alpha	Beta		Alpha	Beta	Alpha	Beta
1.	< 20	< 200	< 59	< 316	23	< 20	< 200	< 59	< 316
2	< 20	< 200	< 59	369	24	< 20	< 200	< 59	< 316
3	< 20	< 200	< 59	< 316	25	< 20	< 200	< 59	< 316
4	< 20	< 200	< 59	< 316	*26	< 20	< 200	< 59	< 316
5	< 20	< 200	< 59	< 316	27	< 20	< 200	< 59	< 316
6	< 20	< 200	< 59	< 316	28	< 20	< 200	< 59	< 316
7	< 20	< 200	< 59	< 316	29.	< 20	< 200	< 59	< 316
8	< 20	< 200	< 59	< 316	30.	< 20	< 200	< 59	< 316
9	< 20	< 200	< 59	< 316	31.	< 20	< 200	< 59	< 316
10	< 20	< 200	< 59	< 316	[redacted]	< 20	< 200	[redacted]	< 316
11	< 20	< 200	< 59	< 316	33				
12.	< 20	< 200	< 59	< 316	34.				
13.	< 20	< 200	< 59	< 316	35.				
14	< 20	< 200	< 59	< 316	36				
15	< 20	< 200	< 59	< 316	37.				
16	< 20	< 200	< 59	< 316	38				
17	< 20	< 200	< 59	< 316	39.				
18.	< 20	< 200	< 59	< 316	40				
	< 20	< 200	< 59	< 316	41				
20	< 20	< 200	< 59	< 316	42.				
21	< 20	< 200	< 59	< 316	43.				
22	< 20	< 200	< 59	< 316	44				

Date [redacted] 5/10/99 RS Supervision: LN Cooper / [signature] [redacted]
Print Name Signature Emp. #

RS FORMS 07.02-01

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg EBERLINE	Mfg.EBERLINE	Mfg.EBERLINE
Model SAC-4	Model SAC-4	Model SAC-4
Serial # 959	Serial # 1188	Serial #
Cal Due 7-5-99	Cal Due 6-16-99	Cal Due
Bkg 01	Bkg 01	Bkg
Efficiency 33%	Efficiency 33%	Efficiency
MDA <20	MDA <20	MDA
Mfg EBERLINE	Mfg NE TECH	Mfg NE TECH
Model BC-4	Model ELECTRA	Model ELECTRA
Serial # 838	Serial # 1680	Serial # 1680
Cal Due 7-13-99	Cal Due 8-10-99	Cal Due 8-10-99
Bkg 44	Bkg α 5	Bkg 490
Efficiency 25%	Efficiency 22.9%	Efficiency 347%
MDA 200	MDA 59	MDA 316

Survey Type: CONTAMINATION

Building: [redacted]

Location.

Purpose. Characterization Survey

RWP # -NA

Date [redacted]5-05-99 Time [redacted]5:00

RCT Rex SNYDER / [signature] [redacted] Emp #
Print name Signature

RCT [signature] / [signature] Emp #
Print name Signature

PRL #

Comments Survey Points on Canvas Panel on [redacted] Side of Big Dog. This area has been posted as "Fixed Contam" until further notice Plus 10% Scan on area

SURVEY RESULTS

	REMOVABLE ALPHA	REMOVABLE BETA	DIRECT ALPHA	DIRECT BETA		REMOVABLE ALPHA	REMOVABLE BETA	DIRECT ALPHA	DIRECT BETA
1	< 20	< 200	72	< 316	23				
2	< 20	< 200	78	546	24				
3	< 20	< 200	84	417	25				
[redacted]	< 20	< 200	[redacted]	< 316	26				
	< 20	< 200		< 316	27				
	< 20	< 200	[redacted]	< 316	28				
7	< 20	< 200	90	< 316	29				
8	< 20	< 200	< 59	< 316	30				
9					31				
10					32				
11					33				
12					34				
13					35				
14					36				
15					37				
16					38				
17					39				
18					40				
9					41				
20					42				
21					43				
22					44				

Date Reviewed 5/10/99 RS Supervision N Cooper / Kelly Hooper / [redacted] Emp #
Print Name Signature

5

COPY

RS FORMS 07.02-01

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg. EBERLINE	Mfg. EBERLINE	Mfg. EBERLINE
Model SAC-4	Model SAC-4	Model SAC-4
Serial #	Serial #	Serial #
Cal Due	Cal Due	Cal Due
Bkg.	Bkg	Bkg.
Efficiency	Efficiency	Efficiency
MDA	MDA	MDA
Mfg. EBERLINE	Mfg. NE TECH	Mfg. NE TECH
Model BC-4	Model ELECTRA	Model ELECTRA
Serial # 5-20	Serial #	Serial # 1354
Cal Due	Cal Due	Cal Due 8-99
Bkg.	Bkg	Bkg 1.01 1490
Efficiency	Efficiency	Efficiency .248 .308
MDA	MDA	MDA <29.6 <328

Survey Type: CONTAMINATION

Building: 664

Location: 904 Pad

Purpose: Roof Paver

RWP # 99-549-6095

Date 5-20-99 Time 0900

RCT Kmote / KMote [redacted]
Print name / Signature / Emp #

RCT / /
Print name / Signature / Emp #

PRL #:

Comments: Tent #7 PADEL Resurveyed; lg Area Wipe + direct Reading in accordance with Bill Blair, RAD. Eng., this unit considered DOE enhanced material. KLooper

*Large area wipe

SURVEY RESULTS

	REMOVABLE ALPHA	REMOVABLE BETA	DIRECT ALPHA	DIRECT BETA
1	<29.6	<328	[redacted]	<328
2	<29.6	<328	[redacted]	<328
3	<29.6	<328	[redacted]	<328
4	<29.6	<328	30	<328
5	<29.6	<328	30	<328
6	<29.6	<328	<29.6	<328
7	<29.6	<328	<29.6	<328
8	<29.6	<328	<29.6	<328
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				

REMOVABLE ALPHA	REMOVABLE BETA	DIRECT ALPHA	DIRECT BETA

Date Reviewed 5/21/99 RS Supervision LN Cooper / KLooper / [redacted]
Emp #

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg. EBERLINE	Mfg. EBERLINE	Mfg EBERLINE
Model BC-4	Model BC-4	Model SAC-4
Serial # 838	Serial # 874	Serial # 959
Cal Due 7/13/99	Cal Due 6/7/99	Cal Due 7/5/99
Bkg. 44	Bkg. 41	Bkg. 0.1
Efficiency 25%	Efficiency 25%	Efficiency 33%
MDA <200	MDA <200	MDA <20
Mfg EBERLINE	Mfg. NE TECH	Mfg. NE TECH
Model SAC-4	Model ELECTRA	Model ELECTRA
Serial # 1188	Serial # 1680	Serial # 1680
Cal Due 6/16/99	Cal Due 8-10-99	Cal Due 5-10-99
Bkg. 0.1	Bkg. 4	Bkg. 504
Efficiency 33%	Efficiency 21.9%	Efficiency 34.7%
MDA <20	MDA 54	MDA 321

Survey Type: Contamination Survey

Building: [redacted]

Location: 904 PAD

Purpose: CHARACTERIZATION SURVEYS

RWP #: NA

Date: [redacted] Time: [redacted]

RCT Rex Snyder / [signature] [redacted]
Print name Signature Emp #

RCT [signature]
Print name Signature Emp. #

PRL #:

Comments [redacted] on Cans Panels also perform 10% Scan on Cans panels direct < 8 PT.

All Results Are In dpm/100cm2

SURVEY RESULTS

	Removable		Direct			Removable		Direct	
	Alpha	Beta	Alpha	Beta		Alpha	Beta	Alpha	Beta
1	< 20	< 200	< 54	< 321		[redacted]		[redacted]	
2.	< 20	< 200	< 54	< 321		< 20	< 200	[redacted]	648
3	< 20	< 200	< 54	< 321	25	< 20	< 200	< 54	< 321
4	< 20	< 200	< 54	< 321	26	< 20	< 200	< 54	390
5	< 20	< 200	< 54	< 321	27.	< 20	< 200	< 54	< 321
6	< 20	< 200	< 54	< 321	28	< 20	< 200	< 54	< 321
7	< 20	< 200	< 54	< 321	29.	< 20	< 200	< 54	< 321
8	< 20	< 200	< 54	< 321	30.	< 20	< 200	< 54	< 321
9	< 20	< 200	< 54	< 321	31.	< 20	< 200	< 54	< 321
10	< 20	< 200	< 54	< 321	32	< 20	< 200	< 54	< 321
11	< 20	< 200	< 54	< 321	33	< 20	< 200	< 54	< 321
12	< 20	< 200	< 54	< 321	34.	< 20	< 200	< 54	< 321
13.	< 20	< 200	< 54	< 321	35.	< 20	< 200	< 54	< 321
14	< 20	< 200	< 54	< 321	36	< 20	< 200	< 54	< 321
15	< 20	< 200	< 54	< 321	37	< 20	< 200	< 54	< 321
16	< 20	< 200	< 54	< 321	38.	< 20	< 200	< 54	< 321
17	< 20	< 200	< 54	< 321	39	< 20	< 200	< 54	< 321
18	< 20	< 200	< 54	< 321	40	< 20	< 200	< 54	< 321
	20	< 200	< 54	< 321	41	< 20	< 200	< 54	396
20	< 20	< 200	< 54	< 321	42.	< 20	< 200	< 54	< 321
21.	< 20	< 200	< 54	< 321	43	< 20	< 200	< 54	< 321
22	< 20	< 200	< 54	< 321	44	< 20	< 200	< 54	< 321

Date [redacted] 5/10/99 RS Supervision: L.W. Cooper / [signature] [redacted]
Print Name Signature Emp. #

RS FORMS 07.02-01

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg. EBERLINE	Mfg EBERLINE	Mfg. EBERLINE
Model SAC-4	Model SAC-4	Model SAC-4
Serial # 959	Serial # 1189	Serial # 835
Cal Due 7-5-99	Cal Due 6-16-99	Cal Due 10-26-99
Bkg. 0 2	Bkg 0.5	Bkg 0.3
Efficiency 33%	Efficiency 33%	Efficiency 33%
MDA 20	MDA 20	MDA 20
Mfg. EBERLINE	Mfg NE TECH	Mfg. NE TECH
Model BC-4	Model ELECTRA	Model ELECTRA
Serial # 838	Serial # 1680	Serial # 1680
Cal Due 7-13-99	Cal Due 8-10-99	Cal Due 8-10-99
Bkg. 45	Bkg 4	Bkg 504
Efficiency 25%	Efficiency 22 9 %	Efficiency 24.7 %
MDA 200	MDA 54	MDA 321

Survey Type: CONTAMINATION

Building [redacted] 8

Location 904 Pad

Purpose: Characterization Survey

RWP #. - NA -

Date [redacted] 5-10-99 Time [redacted]

RCT Rex Sayore / [signature] [redacted]
Print name Signature Emp #

RCT N / A
Print name Signature Emp #

PRL # :

Comments Survey Points on Canvas, plus 10% direct scan on canvas < 8 ET

SURVEY RESULTS

	REMOVABLE		DIRECT			REMOVABLE		DIRECT	
	ALPHA	BETA	ALPHA	BETA		ALPHA	BETA	ALPHA	BETA
1	< 20	< 200	96	378	23				
2	< 20	< 200	[redacted]	648	24				
3	< 20	< 200		< 321	25				
4	< 20	< 200		< 321	26				
5	< 20	< 200		< 321	27				
6	< 20	< 200		< 321	28				
7	< 20	< 200	< 54	< 321	29				
8	< 20	< 200	< 54	< 321	30				
9					31				
10					32				
11					33				
12					34				
13					35				
14					36				
15					37				
16					38				
17					39				
18					40				
					41				
20					42				
21					43				
22					44				

Date Reviewed: 5/10/99 RS Supervision L N Cooper / [signature] / [redacted]
Print Name Signature Emp #

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg. EBERLINE	Mfg. EBERLINE	Mfg EBERLINE
Model BC-4	Model BC-4	Model SAC-4
Serial # 838	Serial # 874	Serial # 959
Cal Due 7/13/99	Cal Due 6/7/99	Cal Due 7/5/99
Bkg. 44	Bkg. 37	Bkg. 0.1
Efficiency 25%	Efficiency 25%	Efficiency 33%
MDA <200	MDA <200	MDA <20
Mfg. EBERLINE	Mfg. NE TECH	Mfg. NE TECH
Model SAC-4	Model ELECTRA	Model ELECTRA
Serial # 1188	Serial # 1425	Serial # 1425
Cal Due 6/16/99	Cal Due 8-25-99	Cal Due 8-25-99
Bkg. 0.1	Bkg. 7	Bkg. 480
Efficiency 33%	Efficiency 21.0%	Efficiency 31.6%
MDA <20	MDA 72	MDA 313

Survey Type: Contamination Survey
Building: [redacted] 8
Location: 904 PAD
Purpose: CHARACTERIZATION SURVEYS

RWP #: NA

Date: [redacted] Time: 1000

RCT: Rex Snyder / [signature] [redacted]
Print name Signature Emp. #

RCT: [signature] / [signature]
Print name Signature Emp #

PRL # :

Comments [redacted] 10 overhead survey points + vents

All Results Are In dpm/100cm2

SURVEY RESULTS

	Removable		Direct			Removable		Direct	
	Alpha	Beta	Alpha	Beta		Alpha	Beta	Alpha	Beta
1.	< 20	< 200	< 72	< 313	23.				
2.	< 20	< 200	< 72	< 313	24.				
3	< 20	< 200	< 72	< 313	25.				
4	< 20	< 200	< 72	< 313	26.				
5	< 20	< 200	< 72	< 313	27.				
6	< 20	< 200	< 72	< 313	28.				
7	< 20	< 200	< 72	< 313	29.				
8	< 20	< 200	< 72	< 313	30				
9	< 20	< 200	< 72	< 313	31.				
10	< 20	< 200	< 72	< 313	32.				
11.	< 20	< 200	< 72	< 313	33.				
12.	< 20	< 200	< 72	< 313	34				
13.	< 20	< 200	< 72	< 313	35				
14	< 20	< 200	< 72	< 313	36				
15.	< 20	< 200	< 72	< 313	37				
[redacted]	< 20	< 200	[redacted]	< 313	38.				
[redacted]	< 20	< 200	[redacted]	< 313	39				
18					40				
19					41				
20					42.				
21					43				
22					44.				

Date 5-13-99 RS Supervision: [signature] [redacted]
8 5-13-99 Print Name Signature Emp. #

9

COPY
This stamp is RED

☐ Property ■ Waste ☐ Sample

RELEASE EVALUATION FORM

Page 1 of 2

Release Evaluation No.: 020109-00904-01 **EXTENDED:** Yes **EXPIRES:** 12-31-02 **Charge No.:** FIBAC904

PART I **SENDER/CUSTODIAN ACKNOWLEDGEMENT**

Description of Property/Waste/Sample To Be Released/Transferred: Tent Panels from 904 Pad.

Current Location 904 Pad general areas in and around all tents.

Destination. Final disposal, Erie Landfill

New Recipient/Custodian Ernie Alonzo, X4380

History/Process Knowledge The panels were part of the Tent structures and covered LLW & LLMW sealed containers at 904 Pad. The areas inside the tents are controlled as a Radioactive Material Area (RMA) only No unconfined radioactive materials are allowed to be stored or have been found on routine ongoing contamination surveys inside the tent storage areas The tents are for weather protection, not containment for radioactive materials

Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No

1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.
2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian Danny Cochran Emp No: [redacted] Date 1-09-02 Ext. 4394

Danny Cochran

PART II **RADIOLOGICAL ENGINEERING**

SPECIFIC REQUIREMENTS AND/OR COMMENTS **Radiological surveys will not be required for the unrestricted release of the specified tent panels based on the history and location of its installation.**

1. Historic weekly contamination surveys of the 904 Pad RMA demonstrate that contamination limits are below the Unrestricted Release Limits of 20 dpm/100cm2 and 1,000 dpm/100cm2 for removable alpha and beta activity respectively, & 100 dpm/100cm2 and 5,000 dpm/100cm2 for total surface alpha and beta activity respectively (per table 2-2 of the SRCM).
2. The general area (other than inside the #10 and #11 Permacons) 904 Pad RMA has never been posted a Contamination Area and has no history of any radiological spills or releases.
3. No survey required is based on the process knowledge of the 904 Pad RMA operations and historical radiological survey data demonstrating contamination levels consistently below unrestricted release limits.
4. This Release Evaluation does NOT authorize the unrestricted release of other industrial waste generated in the B906 RMA.
5. In the event radiological contamination is detected in the 904 Pad RMA, this Release Evaluation SHALL be terminated by the sender/custodian and Radiological Engineering SHALL be notified.

Evaluated. Scott D Black Emp. No: [redacted] Date. 1-09-02 Ext: 3349

Radiological Engineer

APPROVAL FOR TRANSFER/SHIPMENT

Approved. Joseph Hom Emp No: [redacted] Date: 1/15/02 Ext: 3789

Radiological Engineer

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PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: _020109-00904-01_ Page 2 of 2

Release Evaluation for Waste:

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.) The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval In addition, the evaluation and unrestricted release approval signatures shall not be the same RE The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer

Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history

Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e , second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page __ of __, initials of Radiological Engineer signing approval for transfer/shipment and date

SURVERY LOG # :904-01-02-0051

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg	NA	Mfg.	LUDLUM	Mfg.	LUDLUM
Model	NA	Model	2929	Model	2929
Serial#	NA	Serial#	176085	Serial#	176085
Cal Due	NA	Cal Due	4/1/02	Cal Due	4/1/02
Bkg	NA	Bkg. α	0.1 CPM	Bkg. β	95CPM
Efficiency	NA	Efficiency	.347%	Efficiency	.427 %
MDA	NA	MDA α	18 DPM	MDA β	205 DPM
Mfg	NA	Mfg	NA	Mfg	BICRON
Model	NA	Model	NA	Model	MICRO-R
Serial#	NA	Serial#	NA	Serial#	C775F
Cal Due	NA	Cal Due	NA	Cal Due	5/7/02
Bkg	NA	Bkg	NA	Bkg	<17 uR/Hr
Efficiency	NA	Efficiency	NA	Efficiency	NA
MDA	NA	MDA	NA	MDDR	17 uR/Hr

Survey Type: RADIATION & CONTAMINATION
Building: 904 PAD
Location: [redacted]
Purpose: [redacted]WEEKLY ROUTINE'

RWP #: N/A

Date: 1/21/02 Time: 11:00

RCT: J. GARVERICK / [signature] / [redacted]
Print name / Signature / Emp. #

RCT: NA / NA / NA
Print name / Signature / Emp. #

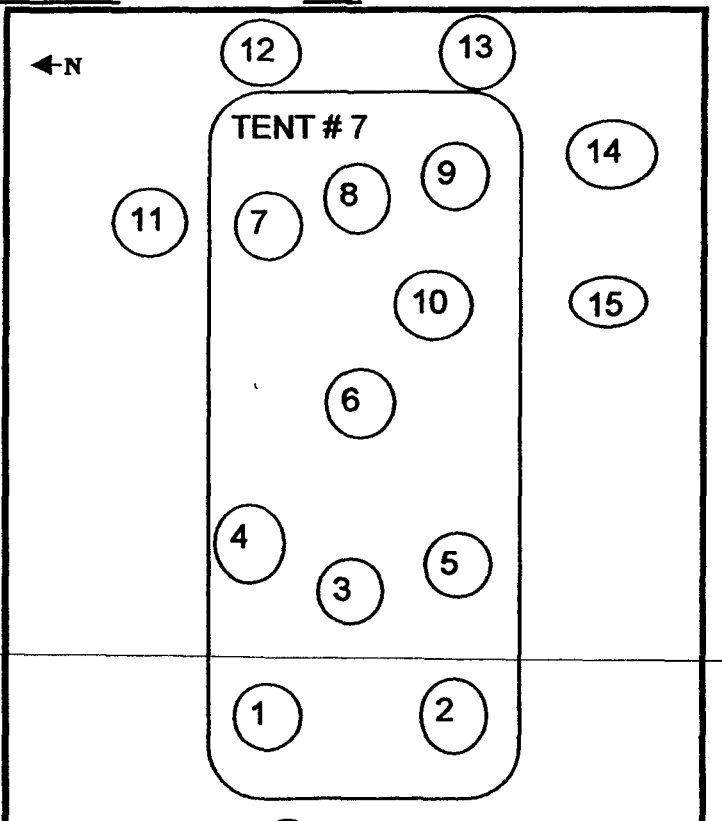
PRN/REN #: N/A

Comments: POSTED R.M.A./ DOSIMETERY REQUIERD

SURVEY RESULTS

Swipe #	Location/Description Results in DPM/100CM²	Removable Alpha	Removable Beta	micro-R/hr Gamma
1	SEE MAP	<18	<205	<17
2		<18	<205	<17
3		<18	<205	30
4		<18	<205	30
5		<18	<205	30
6		<18	<205	60
7		<18	<205	450
8		<18	<205	850
9		<18	<205	900
10		<18	<205	450
11		<18	<205	80
12		<18	<205	80
13		<18	<205	80
14	▼	<18	<205	80
15	SEE MAP	<18	<205	80
16	NA	NA	NA	NA
17	NA	NA	NA	NA
18	NA	NA	NA	NA
19	NA	NA	NA	NA
20	NA	NA	NA	NA

Map



Date Reviewed: 01/21/02 RS Supervision: [signature] / [signature] / [redacted]
Print Name / Signature / Emp. #

SURVERY LOG # 904-01-02-0052

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg	NA	Mfg	Ludlum	Mfg.	Ludlum
Model	NA	Model	2929	Model	2929
Serial#	NA	Serial#	176085	Serial#	176085
Cal Due	NA	Cal Due	4/1/02	Cal Due	4/1/02
Bkg	NA	Bkg. α	0.1 CPM	Bkg. β	95CPM
Efficiency	NA	Efficiency	.347 %	Efficiency	.427 %
MDA	NA	MDA α	18 Dl.	MDA β	205 DPM
Mfg	NA	Mfg	NA	Mfg	BICRON
Model	NA	Model	NA	Model	MICRO-R
Serial#	NA	Serial#	NA	Serial#	C775F
Cal Due	NA	Cal Due	NA	Cal Due	5/7/02
Bkg	NA	Bkg	NA	Bkg	<17 uR/Hr
Efficiency	NA	Efficiency	NA	Efficiency	NA
MDA	NA	MDA	NA	MDDR	17 uR/Hr

Survey Type: RADIATION & CONTAMINATION
Building: 904 PAD
Location: TENT # 8
Purpose: WEEKLY ROUTINE

RWP #: N/A

Date: 1/21/02 Time: 11:00

RCT: J. GARVERICK / [signature] / [redacted]
Print name / Signature / Emp. #

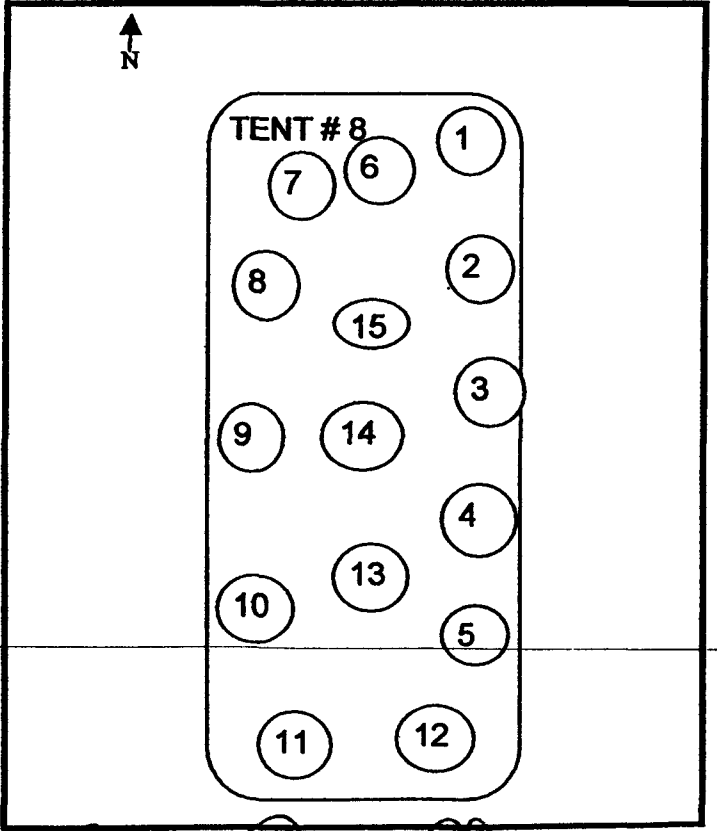
RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN #: NA
Comments: POSTED R.M.A. / DOSIMETRY REQUIRED

SURVEY RESULTS

Swipe #	Location/Description Results in DPM/100CM²	Removable Alpha	Removable Beta	MicroR/hr Gamma
1	SEE MAP	<18	<205	<17
2		<18	<205	30
3		<18	<205	30
4		<18	<205	30
5		<18	<205	30
6		<18	<205	<17
7		<18	<205	<17
8		<18	<205	<17
9		<18	<205	<17
10		<18	<205	<17
11		<18	<205	<17
12		<18	<205	<17
13		<18	<205	30
14		<18	<205	30
15	SEE MAP	<18	<205	30
16	NA	NA	NA	NA
17	NA	NA	NA	NA
18	NA	NA	NA	NA
19	NA	NA	NA	NA
20	NA	NA	NA	NA

Map



Date Reviewed: 01/21/02 RS Supervision: [signature] / [signature] / [redacted]
Print Name / Signature / Emp. #

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SURVERY LOG # :904-01-02-0053

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg	NA	Mfg.	LUDLUM	Mfg.	LUDLUM
Model	NA	Model	2929	Model	2929
Serial#	NA	Serial#	176085	Serial#	176085
Cal Due	NA	Cal Due	4/1/02	Cal Due	4/1/02
Bkg	NA	Bkg. α	0.1 CPM	Bkg. β	95 CPM
Efficiency	NA	Efficiency	.347 %	Efficiency	.427 %
MDA	NA	MDA α	18 DPM	MDA β	205 DPM
Mfg	NA	Mfg	NA	Mfg	BICRON
Model	NA	Model	NA	Model	MICRO-R
Serial#	NA	Serial#	NA	Serial#	C775F
Cal Due	NA	Cal Due	NA	Cal Due	5/7/02
Bkg	NA	Bkg	NA	Bkg	<17 uR/Hr
Efficiency	NA	Efficiency	NA	Efficiency	NA
MDA	NA	MDA	NA	MDDR	17 uR/Hr

Survey Type: RADIATION & CONTAMINATION
Building: 904 PAD
Location: [redacted]
Purpose: WEEKLY ROUTINE

RWP #: N/A

Date: 1/21/02 Time: 11:00

RCT: J. GARVERICK / [signature] / [redacted]
Print name / Signature / Emp. #

RCT: NA / NA / NA
Print name / Signature / Emp. #

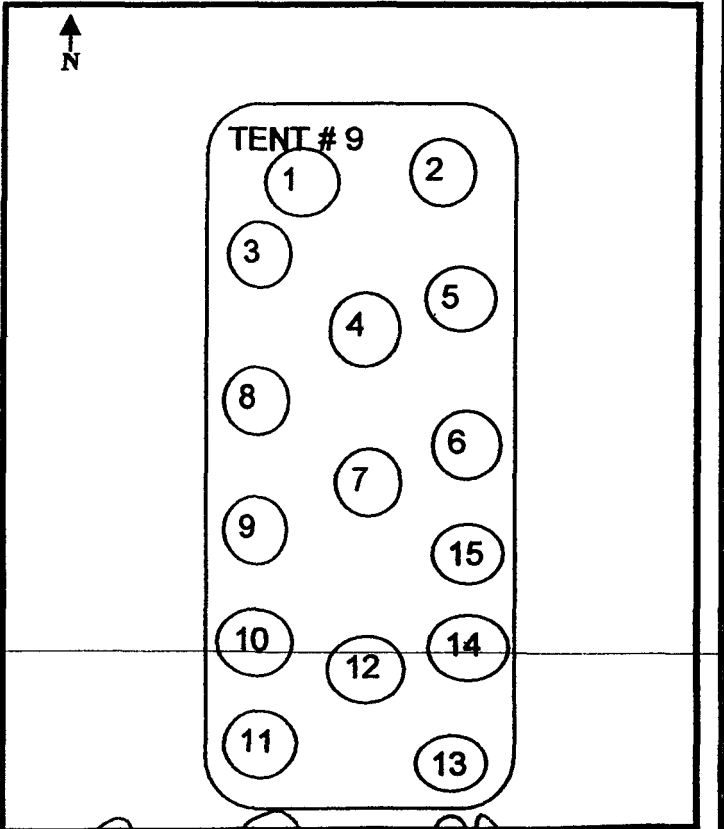
PRN/REN #: NA

Comments: POSTED R.M.A./ DOSIMETRY REQUIRED.

SURVEY RESULTS

Swipe #	Location/Description Results in DPM/100CM²	Removable Alpha	Removable Beta	microR/hr Gamma
1	SEE MAP	<18	<205	<17
2		<18	<205	<17
3		<18	<205	1200
4		<18	<205	90
5		<18	<205	<17
6		<18	<205	360
7		<18	<205	150
8		<18	<205	1600
9		<18	<205	1100
10		<18	<205	500
11		<18	<205	30
12		<18	<205	50
13		<18	<205	<17
14	▼	<18	<205	20
15	SEE MAP	<18	<205	20
16	NA	NA	NA	NA
17	NA	NA	NA	NA
18	NA	NA	NA	NA
19	NA	NA	NA	NA
20	NA	NA	NA	NA

Map



Date Reviewed: 01/21/02 RS Supervision: [signature]
Print Name / Signature / Emp. #

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INSTRUMENT DATA

Mfg	LUDLUM	Mfg	NE Electra	Mfg	NA
Model	2929	Model	DP-6	Model	NA
Serial #	95569	Serial #	4339	Serial #	NA
Cal Due	4/14/02	Cal Due	2/7/02	Cal Due	NA
Bkg	0 1 cpm	Bkg	0 cpmα	Bkg	NA cpmα
Eff	34 4 %	Eff	21.3 %	Eff.	NA %
MDA	18	MDA	13 dpmα	MDA	NA dpmα
Mfg	LUDLUM	Mfg	NE Electra	Mfg	NA
Model	2929	Model	DP-6	Model	NA
Serial #	95569	Serial #	4339	Serial #	NA
Cal Due	4/14/02	Cal Due	2/7/02	Cal Due	NA
Bkg	71 3	Bkg	440 cpmβ	Bkg	NA cpmα
Eff	36 4 %	Eff	30 4 %	Eff	NA %
MDA	205 dpm	MDA	330 dpmβ	MDA	NA dpmα

Survey Type:
Building: 904 PAD
Location: [redacted]
Purpose: [redacted] RELEASE

RWP #: NA

Date: 11/6/01 Time: 14 00

RCT: G Lucero / [signature] / [redacted]
Print name / Signature / Emp #

RCT: NA / NA / NA
Print name / Signature / Emp #

PRN/REN #: 010827-00904-01

Comments: [redacted] survey points are representative of six pallets of tent scraps which will be disposed of at the landfill. (Survey included fifteen survey points per panel for approx. 6 ttl full panels). [signature] 11-8-01

SURVEY RESULTS

Swipe #	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	inner panel	<18	<13	NA	<205	<330	NA
2	inner panel	<18	<13	NA	<205	<330	NA
3	inner panel	<18	<13	NA	<205	<330	NA
4	inner panel	<18	<13	NA	<205	<330	NA
5	inner panel	<18	<13	NA	<205	<330	NA
6	inner panel	<18	<13	NA	<205	<330	NA
7	inner panel	<18	<13	NA	<205	<330	NA
8	outer panel	<18	<13	NA	<205	<330	NA
10	outer panel	<18	<13	NA	<205	<330	NA
11	outer panel	<18	<13	NA	<205	<330	NA
12	outer panel	<18	<13	NA	<205	<330	NA
13	outer panel	<18	<13	NA	<205	<330	NA
14	cables	<18	<13	NA	<205	<330	NA
15	cables	<18	<13	NA	<205	<330	NA
16	NA	NA	NA	NA	NA	NA	NA
17	NA	NA	NA	NA	NA	NA	NA
18	NA	NA	NA	NA	NA	NA	NA
19	NA	NA	NA	NA	NA	NA	NA
20	NA	NA	NA	NA	NA	NA	NA
21	NA	NA	NA	NA	NA	NA	NA

Date Reviewed: 11/6/01 RS Supervision: Gary John Chavez [signature] [redacted]
Print Name / Signature / Emp #

15/15